# H3C WA7600 Series Access Points

## Hardware Information and Specifications

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# Preface

H3C WA7600 Series Access Points Hardware Information and Specifications covers the chassis views, models, technical specifications, and LEDs of the WA7600 APs.

This preface includes the following topics about the documentation:

- Audience.
- Conventions.
- Documentation feedback.

# Audience

This documentation is intended for:

- Network planners.
- Field technical support and servicing engineers.
- Network administrators working with the WA7600 series access point.

# Conventions

The following information describes the conventions used in the documentation.

### Command conventions

| Convention | Description |
|---|---|
| **Boldface** | **Bold** text represents commands and keywords that you enter literally as shown. |
| *Italic* | *Italic* text represents arguments that you replace with actual values. |
| [ ] | Square brackets enclose syntax choices (keywords or arguments) that are optional. |
| { x \| y \| ... } | Braces enclose a set of required syntax choices separated by vertical bars, from which you select one. |
| [ x \| y \| ... ] | Square brackets enclose a set of optional syntax choices separated by vertical bars, from which you select one or none. |
| { x \| y \| ... } * | Asterisk marked braces enclose a set of required syntax choices separated by vertical bars, from which you select a minimum of one. |
| [ x \| y \| ... ] * | Asterisk marked square brackets enclose optional syntax choices separated by vertical bars, from which you select one choice, multiple choices, or none. |
| &<1-n> | The argument or keyword and argument combination before the ampersand (&) sign can be entered 1 to n times. |
| # | A line that starts with a pound (#) sign is comments. |

### GUI conventions

| Convention | Description |
|---|---|
| **Boldface** | Window names, button names, field names, and menu items are in Boldface. For example, the **New User** window opens; click **OK**. |
| > | Multi-level menus are separated by angle brackets. For example, **File** > **Create** > **Folder**. |

## Symbols

| Convention | Description |
|---|---|
| **WARNING!** | An alert that calls attention to important information that if not understood or followed can result in personal injury. |
| **CAUTION:** | An alert that calls attention to important information that if not understood or followed can result in data loss, data corruption, or damage to hardware or software. |
| **IMPORTANT:** | An alert that calls attention to essential information. |
| **NOTE:** | An alert that contains additional or supplementary information. |
| **TIP:** | An alert that provides helpful information. |

## Network topology icons

| Convention | Description |
|---|---|
|  | Represents a generic network device, such as a router, switch, or firewall. |
|  | Represents a routing-capable device, such as a router or Layer 3 switch. |
|  | Represents a generic switch, such as a Layer 2 or Layer 3 switch, or a router that supports Layer 2 forwarding and other Layer 2 features. |
|  | Represents an access controller, a unified wired-WLAN module, or the access controller engine on a unified wired-WLAN switch. |
|  | Represents an access point. |
|  | Represents a wireless terminator unit. |
|  | Represents a wireless terminator. |
|  | Represents a mesh access point. |
|  | Represents omnidirectional signals. |
|  | Represents directional signals. |
|  | Represents a security product, such as a firewall, UTM, multiservice security gateway, or load balancing device. |
|  | Represents a security module, such as a firewall, load balancing, NetStream, SSL VPN, IPS, or ACG module. |

## Examples provided in this document

Examples in this document might use devices that differ from your device in hardware model, configuration, or software version. It is normal that the port numbers, sample output, screenshots, and other information in the examples differ from what you have on your device.

# Documentation feedback

You can e-mail your comments about product documentation to info@h3c.com.

We appreciate your comments.

# Contents

# Product overview

The WA7600 AP series includes the following models:

**Table1-1 WA7600 AP series**

| Product code | Product model | Remarks |
|---|---|---|
| EWP-WA7638-FIT | WA7638 | Indoor AP |
| EWP-WA7630X-FIT | WA7630X | Outdoor AP |

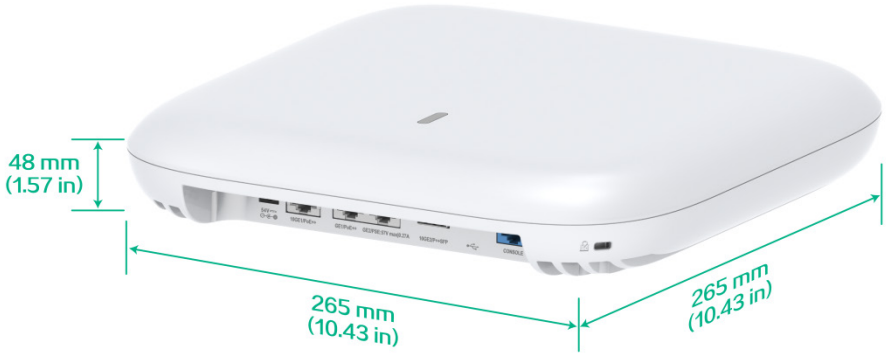
# AP views, ports, and technical specifications

## WA7638

### AP view and dimensions

**Figure1-1 AP view**

**Figure1-2 AP dimensions**




### Ports

The AP provides the following ports:

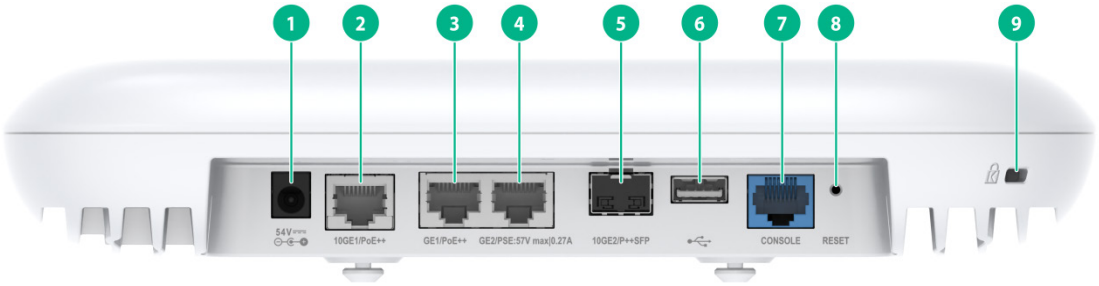
- One GE1/PoE++ copper Ethernet port.
- One GE2/PSE copper Ethernet port.
- One 10GE1/PoE++ copper Ethernet port.
- One 10GE2/P++SFP fiber port.
- One console port.
- One 54 VDC power receptacle.

- One USB port.

**NOTE:**

The AP also provides a reset button and a security slot with a size of 7 × 3 mm (0.28 × 0.12 in).

**Figure1-3 Ports (1)**




| | | |
|---|---|---|
| (1) 54 VDC power receptacle | (2) 10GE1/PoE++ port | (3) GE1/PoE++ port |
| (4) GE2/PSE port | (5) 10GE2/P++SFP port | (6) USB port |
| (7) Console port | (8) Reset button | (9) Security slot |

# Technical specifications

**Table1-2 Technical specifications**

| Item | Specification |
|---|---|
| Dimensions (H × W × D) | 48 × 265 × 265 mm (1.89 × 10.43 × 10.43 in, excluding the mounting bracket) |
| Weight | 1.9 kg (4.19 lb) |
| Power consumption | 57 W |
| Antenna | Built-in antenna |
| Standard compliance | • IEEE802.11a/b/g/n/ac/ax/be<br>• IEEE802.3bt/at |
| Powering option | IEEE802.3at/bt powering standard-compliant:<br>• Power adapter<br>• PoE<br>• Hybrid copper-fiber transceiver module |
| Operating temperature | –10°C to +50°C (14°F to 122°F) |
| Storage temperature | –40°C to +70°C (–40°F to +158°F) |
| Operating humidity | 5% RH to 95% RH, noncondensing |
| Storage humidity | 5% RH to 95% RH, noncondensing |
| Operating altitude | –60 m to +5000 m (–196.85 ft to +16404.20 ft) |
| Console port | Used by technical personnel only for device configuration and management. |
| 10GE2/P++SFP | 100M/1000M/2.5G/5G/10G hybrid copper-fiber port<br>When the AP operates in fit AP mode, the port is represented by interface number 10GE1/0/2 in the MAP file and Ten-GigabitEthernet 2 for |

| Item | Specification |
| --- | --- |
| | configuration on the AC. |
| GE1/PoE++ | 100M/1000M copper Ethernet port, used for connecting the AP to an uplink device for Internet or MAN access. It can also act as a standard PoE port.<br>When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC. |
| 10GE1/PoE++ | 100M/1000M/2.5G/5G/10G copper Ethernet port, used for connecting the AP to an uplink device for Internet or MAN access. It can also act as a standard PoE port.<br>When the AP operates in fit AP mode, the port is represented by interface number 10GE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC. |
| GE2/PSE | 100M/1000M copper Ethernet port, used for connecting a downlink device. The device can supply power through this port to a standard PD with a maximum power consumption of 15 W.<br>When the AP operates in fit AP mode, the port is represented by interface number GE1/0/2 in the MAP file and GigabitEthernet 2 for configuration on the AC. |
| USB | Compliant with USB 2.0.<br>Note:<br>By default, the USB port is disabled. To enable the USB port, execute the **`usb enable`** command in AP view. |
| Power port (54VDC) | Used for receiving power from a local power source. |
| Reset button | The function of the reset button varies by duration for which it is pressed. For more information, see "LED description for the reset button." |
| LEDs | Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs." |

# WA7630X

## AP view and dimensions

**Figure1-4 AP view**

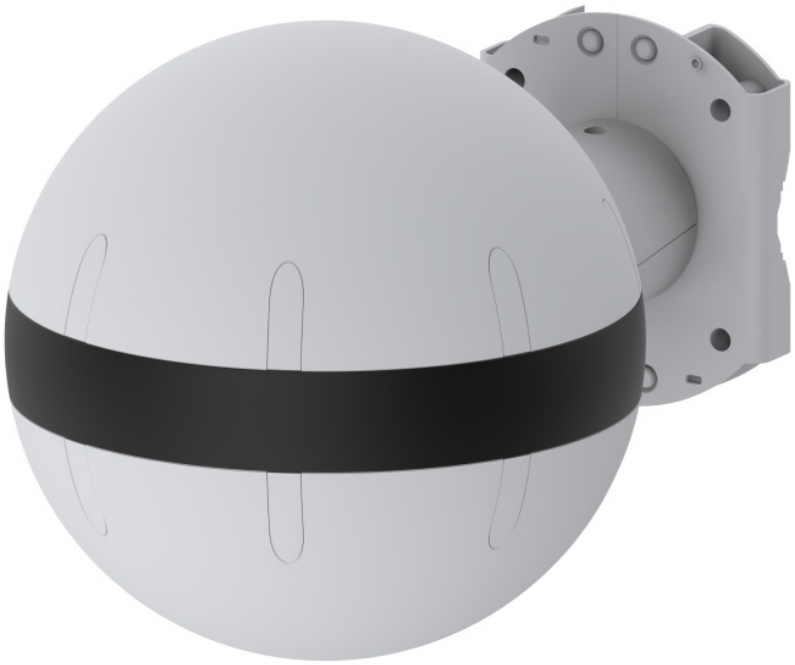
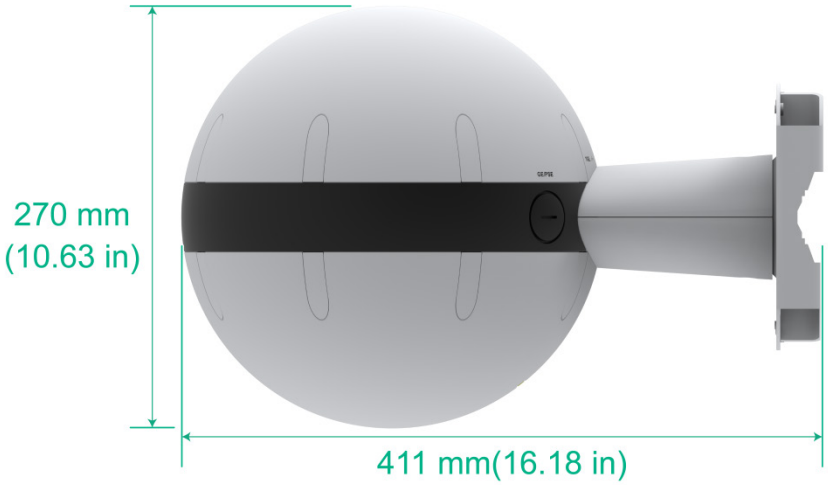


**Figure1-5 AP dimensions**




## Ports

The AP provides the following ports:

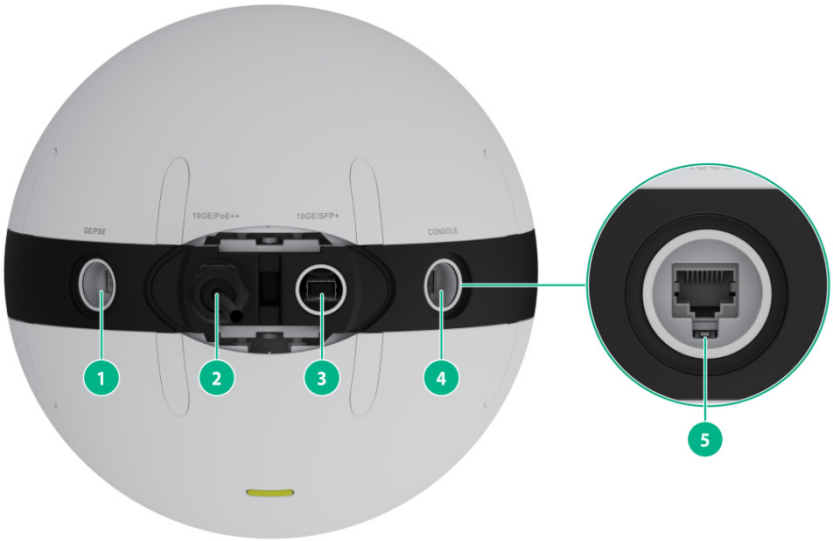
- One GE/PSE port.

- One 10GE/PoE++ port.
- One 10GE/SFP+ port.
- One console port.

**NOTE:**

The AP also provides a reset button.

**Figure1-6 Ports**




| | |
|---|---|
| (1) GE/PSE port | (2) 10GE/PoE++ port |
| (3) 10GE/SFP+ port | (4) Console port |
| (5) Reset button | |

# Technical specifications

**Table1-3 Technical specifications**

| Item | Specification |
|---|---|
| Dimensions (H × W × D) | 270 × 270 × 411 mm (10.63 × 10.63 × 16.18 in) |
| Weight | 5 kg (11.02 lb) |
| Power consumption | • PoE power reception compliant with 802.3af is not supported.<br>• PoE power reception compliant with 802.3bt: ≤ 46.4 W<br>• PoE power reception compliant with 802.3at: ≤ 26.8 W (radio 3 is in 2×2 MIMO mode and PoE_OUT port cannot be enabled) |
| Antenna | Built-in antenna |
| Powering option | PoE |
| Standard compliance | • IEEE802.11a/b/g/n/ac/ax/be<br>• IEEE802.3bt |
| Operating temperature | –40°C to +65°C (–40°F to +149°F) |

| Item | Specification |
| --- | --- |
| Storage temperature | –40°C to +85°C (–40°F to +185°F) |
| Operating humidity | 0% RH to 100% RH, noncondensing |
| Storage humidity | 0% RH to 100% RH, noncondensing |
| Console port | Used by technical personnel only for device configuration and management. |
| GE/PSE | The 100M/1000M copper Ethernet port is used for connecting a downlink device. The device can supply power through this port to a standard PD with a maximum power consumption of 15 W.<br>When the AP operates in fit AP mode, the port is represented by interface number GE1/0/1 in the MAP file and GigabitEthernet 1 for configuration on the AC. |
| 10GE/PoE++ | The 100M/1000M/2.5G/5G/10G copper Ethernet port is used for connecting the device to an uplink device for Internet or MAN access. It can also act as a standard PoE port.<br>When the AP operates in fit AP mode, the port is represented by interface number 10GE1/0/1 in the MAP file and Ten-GigabitEthernet 1 for configuration on the AC. |
| 10GE/SFP+ | 1000M/2.5G/5G/10G fiber port<br>When the AP operates in fit AP mode, the port is represented by interface number 10GE1/0/2 in the MAP file and Ten-GigabitEthernet 2 for configuration on the AC. |
| Reset button | The function of the reset button varies by duration for which it is pressed. For more information, see "." |
| LED | Yellow/green/blue. For more information about the LED status in different AP operating modes, see "LED descriptions for single-LED APs." |

# LEDs

The description for the status LED on the AP varies by AP operating mode. For information about the operating modes supported by the AP, see the release notes.

The LED status includes the color and flashing frequency of the LEDs, which indicates the AP operating status.

The AP has only one LED.

**Figure1-7 Single-LED AP**


**Table1-4 Single-LED AP**

| AP series | | Models | Description |
|---|---|---|---|
| Wi-Fi 7 | WA7600 AP series | WA7630X, WA7638 | For the LED descriptions, see "LED descriptions for single-LED APs." |

# LED descriptions for single-LED APs

## LED descriptions before version changes

For the LED descriptions for the AP in versions earlier than 2614P02, see Table1-5, Table1-6, and Table1-7.

**Table1-5 LED description (fit mode)**

| LED color | Status | Description |
|---|---|---|
| N/A | Off | No power is present or the LED has been turned off from the CLI. |
| Yellow | Steady on | The AP is initializing, or an initialization exception has occurred. |
| | Flashing (twice per | The Ethernet ports are down and no mesh links are |

| LED color | Status | Description |
|---|---|---|
| | second) | established. |
| Green | Steady on | The AP has started up and registered with an AC, but is in standby state (does not have any associated clients). |
| | Flashing (once every two seconds) | The AP has started up, but has not registered to any AC. |
| | Flashing (twice per second) | The AP is upgrading the image. |
| Blue | Flashing (once per second) | A radio has associated clients and the number of associated clients is less than the threshold. |
| Alternating between green and blue | Flashing (once per second) | The number of associated clients has exceeded the threshold. |

**Table1-6 LED description (cloud mode)**

| LED color | Status | Description |
|---|---|---|
| N/A | Off | No power is present or the LED has been turned off from the CLI. |
| Yellow | Steady on | The AP is initializing, or an initialization exception has occurred. |
| | Flashing (twice per second) | The Ethernet ports are down and no mesh links are established. |
| Green | Steady on | The AP is in standby state, has connected to Cloudnet, but does not have any associated clients. |
| | Flashing (once per second) | The AP has connected to Cloudnet, and the radios have associated clients. The number of associated clients is less than the threshold. |
| | Flashing (twice per second) | The AP is upgrading the image. |
| Blue | Steady on | The AP is in standby state, has not connected to Cloudnet, and does not have any associated clients. |
| | Flashing (once per second) | The AP has not connected to Cloudnet, but the radios have associated clients. The number of associated clients is less than the threshold. |
| Alternating between green and blue | Flashing (once per second) | The number of associated clients has exceeded the threshold. |

**Table1-7 LED description (anchor AC mode)**

| LED color | Status | Description |
|---|---|---|
| N/A | Off | No power is present or the LED has been turned off from the CLI. |
| Yellow | Steady on | The AP is initializing, or an initialization exception has occurred. |
| | Flashing (twice per second) | The Ethernet ports are down and no mesh links are established. |
| Green | Steady on | The AP has started up and is in standby state, but does not have any associated clients. |

| LED color | Status | Description |
|---|---|---|
| | Flashing (twice per second) | The AP is upgrading the image. |
| Blue | Flashing (once per second) | A radio has associated clients and the number of associated clients is less than the threshold. |
| Alternating between green and blue | Flashing (once per second) | The number of associated clients has exceeded the threshold. |

### LED descriptions after version changes

For the LED descriptions for the AP in 2614P02 and later versions, see Table1-8.

**Table1-8 LED description**

| LED color | Status | Description |
|---|---|---|
| N/A | Off | No power is present or the LED has been turned off from the CLI. |
| Yellow | Steady on | The AP is initializing, or an initialization exception has occurred. |
| | Flashing (twice per second) | The Ethernet ports are down and no mesh links are established. |
| Green | Steady on | The AP is in standby state and does not have any associated clients. |
| | Flashing (once every two seconds) | The AP has started up in fit mode, but has not registered to any AC. |
| | Flashing (once per second) | The radios have associated clients and the number of associated clients is less than the threshold. |
| | Breathing (once every three seconds)<br>The breathing status is available only for the WA7630X AP. | |
| | Flashing (twice per second) | The number of associated clients has exceeded the threshold. |
| Blue | Flashing (twice per second) | The AP is upgrading the image. |

# LED description for the reset button

**Table1-9 LED description for the reset button**

| Reset button | Press and hold duration (seconds) | LED color | Status | Description |
|---|---|---|---|---|
| RESET | 0 to 5 | Green | Steady on | Reset the AP. |
| | 5 to 20 | Green | Flashing (twice per second) | Restore to the factory defaults. |
| | 20 to 30 | Yellow | Flashing (once every two | The AP is operating in fit mode. |

| Reset button | Press and hold duration (seconds) | LED color | Status | Description |
|---|---|---|---|---|
| | | | seconds) | |
| | | | Flashing (twice per second) | The AP is operating in anchor AC mode. |
| | | | Flashing (four times per second) | The AP is operating in cloud mode. |
| | > 30 | Yellow | Flashing (twice per second) | The AP is operating in anchor AC mode. |
| | | | Flashing (four times per second) | The AP is operating in cloud mode. |
| | | Green | Flashing (four times per second) | The AP is switching from fit mode to cloud mode.<br>Note:<br>After you release the button, if the AP has switched from fit mode to cloud mode, it will restart for the new mode to take effect. |

# Transceiver modules

## Common transceiver modules

### Transceiver module, fiber connector, and optical fiber views

To connect a fiber port, use an SFP transceiver module and optical fibers with LC connectors.

**Figure1-8 SFP transceiver modules**

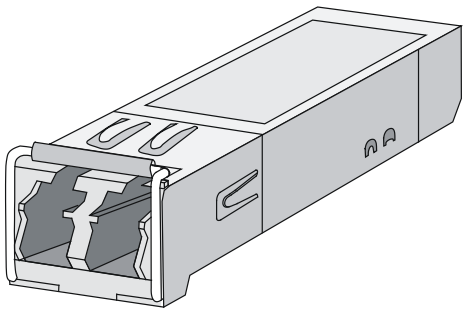
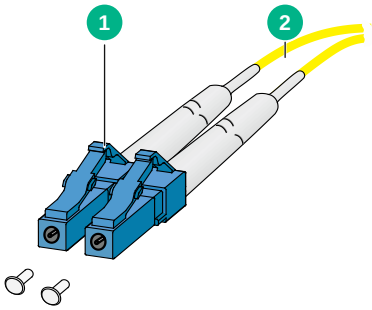


**Figure1-9 Optical fiber with LC connectors**




| | |
|---|---|
| (1) LC connector | (2) Optical fiber |

## Technical specifications

**Table1-10 SFP-XG-CPRI-IR-SM1310 transceiver module specifications**

| Item | SFP-XG-CPRI-IR-SM1310 |
|---|---|
| Central wavelength | 1310 nm |
| Maximum transmission distance | 1.4 km (0.87 miles) |
| Data rate | 4920 to 10310 Mbps |
| Connector type | LC |
| Fiber mode | SMF |
| Fiber diameter | 9/125 μm |

| Item | SFP-XG-CPRI-IR-SM1310 |
| --- | --- |
| Tx optical power | –8.2 to +0.5 dBm |

**NOTE:**

The SFP-2.5G-LX10-SM1310-DR-I transceiver modules are only supported by the WA6320H-HI AP.

**Table1-11 SFP-2.5G-LX10-SM1310-DR-I transceiver module specifications**

| Item | SFP-2.5G-LX10-SM1310-DR-I |
| --- | --- |
| Central wavelength | 1310 nm |
| Maximum transmission distance | 10 km (6.21 miles) |
| Data rate | 1228.8 to 2457.6 Mbps |
| Connector type | LC |
| Fiber mode | SMF |
| Fiber diameter | 9/125 μm |
| Tx optical power | –7 to +2 dBm |

# Hybrid copper-fiber transceiver modules

## Hybrid copper-fiber transceiver module and hybrid copper-fiber connector views

Hybrid copper-fiber transceiver modules support both optical and electrical transmission and PoE power supply. To connect a hybrid copper-fiber port, use a hybrid copper-fiber transceiver module and a hybrid copper-fiber cable with hybrid copper-fiber connectors.

**Figure1-10 Hybrid copper-fiber transceiver module**

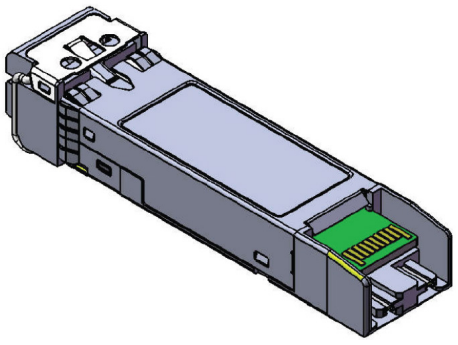
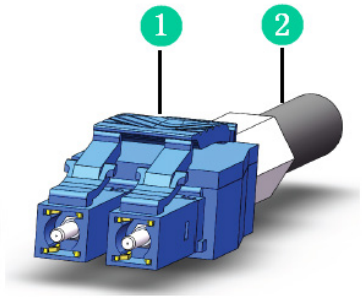


**Figure1-11 Hybrid copper-fiber cable with hybrid copper-fiber connectors**




| | |
|---|---|
| (1) Hybrid copper-fiber connector | (2) Hybrid copper-fiber cable |

# Technical specifications

## GE hybrid copper-fiber transceiver module

**Table1-12 H3C-LS5M1SFPPOE-SFP GE hybrid copper-fiber transceiver module specifications**

| Item | H3C-LS5M1SFPPOE-SFP |
|---|---|
| Operating wavelength | 1310 nm |
| Maximum transmission distance | 10 km (6.21 miles) |
| Data rate | 1.25 Gbps |
| Connector type | LC |
| Maximum power consumption | 1.0 W |
| Operating temperature range | –40°C to +85°C (–40°F to +185°F) |
| Tx optical power | –9 to –1 dBm |

## 10GE hybrid copper-fiber transceiver module

**Table1-13 H3C-LS5M1SFPPOEA-SFP 10GE multi-rate hybrid copper-fiber transceiver module specifications**

| Item | H3C-LS5M1SFPPOEA-SFP |
|---|---|
| Operating wavelength | 1310 nm |
| Maximum transmission distance | 1.4 km (0.87 miles) |
| Data rate | 10.3125 Gbps |
| Connector type | LC |
| Maximum power consumption | 1.2 W |
| Operating temperature range | –40°C to +85°C (–40°F to +185°F) |
| Tx optical power | –8.2 to +0.5 dBm |

# Receive Sensitivity Values

Receive sensitivity is the minimum signal receive power at the antenna port required for correct wireless device operation. A lower receive sensitivity value indicates better receive performance of the wireless device.

## WA7638

**Table1-14 Receive Sensitivity Values**

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| **802.11/11b** | | | |
| 1 Mbps | - | - | -102 |
| 11 Mbps | - | - | -94 |
| **802.11a/g** | | | |
| 6 Mbps | - | -98 | -97 |
| 24 Mbps | - | -89 | -89 |
| 54 Mbps | - | -79 | -81 |
| **802.11n HT20** | | | |
| MCS0 | - | -99 | -98 |
| MCS4 | - | -89 | -88 |
| MCS7 | - | -80 | -80 |
| **802.11n HT40** | | | |
| MCS0 | - | -96 | -94 |
| MCS4 | - | -86 | -85 |
| MCS7 | - | -78 | -77 |
| **802.11ac VHT20** | | | |
| MCS0 | - | -99 | - |
| MCS4 | - | -89 | - |
| MCS7 | - | -80 | - |
| MCS8 | - | -76 | - |
| MCS9 | - | - | - |
| **802.11ac VHT40** | | | |
| MCS0 | - | -96 | - |
| MCS4 | - | -86 | - |
| MCS7 | - | -78 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| MCS8 | - | -76 | - |
| MCS9 | - | -73 | - |
| **802.11ac VHT80** | | | |
| MCS0 | - | -93 | - |
| MCS4 | - | -82 | - |
| MCS7 | - | -73 | - |
| MCS8 | - | -71 | - |
| MCS9 | - | -69 | - |
| **802.11ac VHT160** | | | |
| MCS0 | - | -90 | - |
| MCS4 | - | -80 | - |
| MCS7 | - | -72 | - |
| MCS8 | - | -69 | - |
| MCS9 | - | -66 | - |
| **802.11ax HE20** | | | |
| MCS0 | -98 | -99 | -97 |
| MCS4 | -88 | -89 | -87 |
| MCS7 | -79 | -80 | -79 |
| MCS8 | -77 | -78 | -77 |
| MCS9 | -74 | -75 | -74 |
| MCS10 | -72 | -72 | -72 |
| MCS11 | -69 | -68 | -69 |
| **802.11ax HE40** | | | |
| MCS0 | -96 | -96 | -91 |
| MCS4 | -86 | -87 | -83 |
| MCS7 | -78 | -79 | -77 |
| MCS8 | -75 | -76 | -74 |
| MCS9 | -72 | -73 | -71 |
| MCS10 | -70 | -70 | -69 |
| MCS11 | -67 | -67 | -66 |
| **802.11ax HE80** | | | |
| MCS0 | -93 | -93 | - |
| MCS4 | -83 | -84 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| MCS7 | -75 | -76 | - |
| MCS8 | -73 | -73 | - |
| MCS9 | -70 | -70 | - |
| MCS10 | -67 | -67 | - |
| MCS11 | -64 | -64 | - |
| **802.11ax HE160** | | | |
| MCS0 | -90 | -90 | - |
| MCS4 | -81 | -81 | - |
| MCS7 | -73 | -73 | - |
| MCS8 | -71 | -71 | - |
| MCS9 | -68 | -68 | - |
| MCS10 | -65 | -65 | - |
| MCS11 | -61 | -61 | - |
| **802.11be EHT20** | | | |
| MCS0 | -98 | -99 | - |
| MCS4 | -88 | -89 | - |
| MCS7 | -80 | -81 | - |
| MCS8 | -77 | -78 | - |
| MCS9 | -74 | -75 | - |
| MCS10 | -72 | -72 | - |
| MCS11 | -69 | -69 | - |
| MCS12 | -65 | -66 | - |
| MCS13 | -60 | -62 | - |
| **802.11be EHT40** | | | |
| MCS0 | -96 | -96 | - |
| MCS4 | -86 | -86 | - |
| MCS7 | -78 | -78 | - |
| MCS8 | -76 | -76 | - |
| MCS9 | -73 | -73 | - |
| MCS10 | -70 | -70 | - |
| MCS11 | -66 | -67 | - |
| MCS12 | -64 | -65 | - |
| MCS13 | -61 | -62 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| **802.11be EHT80** | | | |
| MCS0 | -93 | -93 | - |
| MCS4 | -83 | -84 | - |
| MCS7 | -75 | -76 | - |
| MCS8 | -73 | -74 | - |
| MCS9 | -70 | -71 | - |
| MCS10 | -67 | -68 | - |
| MCS11 | -64 | -65 | - |
| MCS12 | -61 | -62 | - |
| MCS13 | -58 | -59 | - |
| **802.11be EHT160** | | | |
| MCS0 | -90 | -90 | - |
| MCS4 | -81 | -81 | - |
| MCS7 | -73 | -73 | - |
| MCS8 | -71 | -71 | - |
| MCS9 | -68 | -68 | - |
| MCS10 | -65 | -65 | - |
| MCS11 | -61 | -61 | - |
| MCS12 | -59 | -60 | - |
| MCS13 | -57 | -58 | - |
| **802.11be EHT320** | | | |
| MCS0 | -87 | - | - |
| MCS4 | -78 | - | - |
| MCS7 | -71 | - | - |
| MCS8 | -69 | - | - |
| MCS9 | -66 | - | - |
| MCS10 | -62 | - | - |
| MCS11 | -58 | - | - |
| MCS12 | -58 | - | - |
| MCS13 | -57 | - | - |

# WA7630X

**Table1-15 Receive Sensitivity Values**

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| **802.11/11b** | | | |
| 1 Mbps | - | - | -102 |
| 11 Mbps | - | - | -94 |
| **802.11a/g** | | | |
| 6 Mbps | - | -97 | -98 |
| 24 Mbps | - | -88 | -89 |
| 54 Mbps | - | -79 | -80 |
| **802.11n HT20** | | | |
| MCS0 | - | -98 | -99 |
| MCS4 | - | -89 | -90 |
| MCS7 | - | -79 | -80 |
| **802.11n HT40** | | | |
| MCS0 | - | -95 | -95 |
| MCS4 | - | -86 | -86 |
| MCS7 | - | -76 | -77 |
| **802.11ac VHT20** | | | |
| MCS0 | - | -98 | - |
| MCS4 | - | -88 | - |
| MCS7 | - | -78 | - |
| MCS8 | - | -75 | - |
| MCS9 | - | - | - |
| **802.11ac VHT40** | | | |
| MCS0 | - | -95 | - |
| MCS4 | - | -85 | - |
| MCS7 | - | -75 | - |
| MCS8 | - | -73 | - |
| MCS9 | - | -71 | - |
| **802.11ac VHT80** | | | |
| MCS0 | - | -92 | - |
| MCS4 | - | -82 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| MCS7 | - | -73 | - |
| MCS8 | - | -70 | - |
| MCS9 | - | -66 | - |
| **802.11ac VHT160** | | | |
| MCS0 | - | -89 | - |
| MCS4 | - | -79 | - |
| MCS7 | - | -69 | - |
| MCS8 | - | -67 | - |
| MCS9 | - | -64 | - |
| **802.11ax HE20** | | | |
| MCS0 | -98 | -98 | -99 |
| MCS4 | -88 | -88 | -89 |
| MCS7 | -79 | -78 | -80 |
| MCS8 | -76 | -76 | -77 |
| MCS9 | -73 | -73 | -75 |
| MCS10 | -70 | -70 | -72 |
| MCS11 | -68 | -68 | -69 |
| **802.11ax HE40** | | | |
| MCS0 | -95 | -95 | -96 |
| MCS4 | -86 | -85 | -87 |
| MCS7 | -77 | -75 | -78 |
| MCS8 | -74 | -73 | -75 |
| MCS9 | -71 | -70 | -72 |
| MCS10 | -68 | -67 | -69 |
| MCS11 | -66 | -65 | -66 |
| **802.11ax HE80** | | | |
| MCS0 | -92 | -92 | - |
| MCS4 | -83 | -82 | - |
| MCS7 | -74 | -73 | - |
| MCS8 | -71 | -70 | - |
| MCS9 | -68 | -68 | - |
| MCS10 | -65 | -66 | - |
| MCS11 | -63 | -63 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| **802.11ax HE160** | | | |
| MCS0 | -90 | -89 | - |
| MCS4 | -80 | -80 | - |
| MCS7 | -71 | -70 | - |
| MCS8 | -68 | -67 | - |
| MCS9 | -66 | -65 | - |
| MCS10 | -63 | -62 | - |
| MCS11 | -60 | -59 | - |
| **802.11be EHT20** | | | |
| MCS0 | -97 | -97 | - |
| MCS4 | -88 | -88 | - |
| MCS7 | -80 | -79 | - |
| MCS8 | -77 | -76 | - |
| MCS9 | -74 | -74 | - |
| MCS10 | -71 | -71 | - |
| MCS11 | -69 | -68 | - |
| MCS12 | -65 | -65 | - |
| MCS13 | -61 | -61 | - |
| **802.11be EHT40** | | | |
| MCS0 | -95 | -95 | - |
| MCS4 | -85 | -86 | - |
| MCS7 | -76 | -76 | - |
| MCS8 | -74 | -74 | - |
| MCS9 | -71 | -71 | - |
| MCS10 | -68 | -68 | - |
| MCS11 | -65 | -65 | - |
| MCS12 | -62 | -62 | - |
| MCS13 | -60 | -60 | - |
| **802.11be EHT80** | | | |
| MCS0 | -92 | -91 | - |
| MCS4 | -83 | -82 | - |
| MCS7 | -74 | -74 | - |
| MCS8 | -71 | -72 | - |

| Radio | 6GHz Radio | 5GHz Radio | 2.4GHz Radio |
|---|---|---|---|
| | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 | Rx sensitivity (dBm) NSS1 |
| MCS9 | -69 | -69 | - |
| MCS10 | -66 | -66 | - |
| MCS11 | -63 | -63 | - |
| MCS12 | -60 | -60 | - |
| MCS13 | -58 | -58 | - |
| **802.11be EHT160** | | | |
| MCS0 | -90 | -89 | - |
| MCS4 | -81 | -80 | - |
| MCS7 | -72 | -71 | - |
| MCS8 | -69 | -68 | - |
| MCS9 | -67 | -66 | - |
| MCS10 | -62 | -62 | - |
| MCS11 | -59 | -59 | - |
| MCS12 | -58 | -58 | - |
| MCS13 | -57 | -56 | - |
| **802.11be EHT320** | | | |
| MCS0 | -86 | - | - |
| MCS4 | -77 | - | - |
| MCS7 | -69 | - | - |
| MCS8 | -66 | - | - |
| MCS9 | -64 | - | - |
| MCS10 | -60 | - | - |
| MCS11 | -56 | - | - |
| MCS12 | -55 | - | - |
| MCS13 | -55 | - | - |